

APPENDIX A

Table 1. Series I Data

compound_no	Class of strain	1 - A	1 - B	1 - C
	cephem-sensitive: S			
	cephem-resistant: R			
1	<i>S. aureus</i> SMITH	1	1	2
2	<i>S. aureus</i> SR3637 (H-MRSA)	32	64	32
3	<i>S. aureus</i> SR20067 (H-MRSA)	>128	>128	>128
4	<i>S. pneumoniae</i> SR16675 (PRSP)	4	4	8
5	<i>E. coli</i> NIHJ JC-2	0.25	0.125	1
6	<i>E. coli</i> SR21003 (Toho2)	2	2	4
7	<i>E. cloacae</i> ATCC 13047	0.5	0.5	1
8	<i>E. cloacae</i> SR4321 (Bla++)	2	16	4
9	<i>P. aeruginosa</i> SR24	1	2	2
10	<i>P. aeruginosa</i> SR24-12 (bla+)	8	32	8
11	<i>P. aeruginosa</i> SR5393	8	16	8
12	<i>P. aeruginosa</i> SR6554 (IPM-R)	64	128	64
13	<i>H. influenzae</i> ATCC49766	0.031	0.063	0.031
14	<i>H. influenzae</i> SR11435 (BLNAR)	0.25	0.5	0.125
15	<i>B. catarrhalis</i> ATCC43617 (Bla +)	0.016	0.031	0.031

Table 2. Series 2 Data

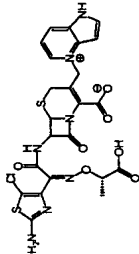
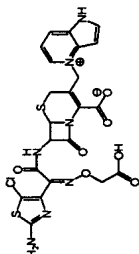
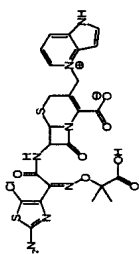
compound_no	Class of strain	2-A	2-B	2-C
	cephem-sensitive: S			
1	<i>S. aureus</i> SMITH	1	1	1
2	<i>S. aureus</i> SR3637 (H-MRSA)	16	16	16
3	<i>S. aureus</i> SR20067 (H-MRSA)	32	64	64
4	<i>S. pneumoniae</i> SR16675 (PRSP)	2	2	4
5	<i>E. coli</i> NIHJ JC-2	0.25	0.125	1
6	<i>E. coli</i> SR21003 (Toho2)	1	1	4
7	<i>E. cloacae</i> ATCC 13047	0.25	0.5	1
8	<i>E. cloacae</i> SR4321 (Bla++)	2	16	16
9	<i>P. aeruginosa</i> SR24	1	1	1
10	<i>P. aeruginosa</i> SR24-12 (bla+)	4	16	8
11	<i>P. aeruginosa</i> SR5393	2	4	4
12	<i>P. aeruginosa</i> SR6554 (IPM-R)	8	32	16
13	<i>H. influenzae</i> ATCC49766	0.016	0.031	0.016
14	<i>H. influenzae</i> SR11435 (BLNAR)	0.032	0.125	0.031
15	<i>B. catarrhalis</i> ATCC43617 (Bla +)	0.016	0.016	0.016

Table 3. Series 3 Data

compound_no	Class of strain	3 - A	3 - B	3 - C
	cephem-sensitive: S			
	cephem-resistant: R			
1 S. aureus SMITH	G(+)	4	4	8
2 S. aureus SR3637 (H-MRSA)	G(+)	32	64	32
3 S. aureus SR20067 (H-MRSA)	G(+)	128	128	128
4 S. pneumoniae SR16675 (PRSP)	G(+)	2	2	2
5 E. coli NIHJ JC-2	G(-)	0.5	0.25	2
6 E. coli SR21003 (Toho2)	G(-)	2	2	4
7 E. cloacae ATCC 13047	G(-)	1	1	4
8 E. cloacae SR4321 (Bla++)	G(-)	8	64	16
9 P. aeruginosa SR24	G(-)	1	1	2
10 P. aeruginosa SR24-12 (bla+)	G(-)	8	32	8
11 P. aeruginosa SR5393	G(-)	4	8	8
12 P. aeruginosa SR6554 (IPM-R)	G(-)	16	32	32
13 H. influenzae ATCC49766	G(-)	0.063	0.125	0.063
14 H. influenzae SR11435 (BLNAR)	G(-)	0.125	0.5	0.125
15 B. catarrhalis ATCC43617 (Bla +)	G(-)	0.032	0.031	0.032

Table 4. Series 4 Data

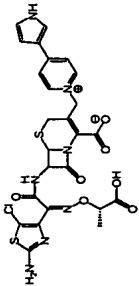
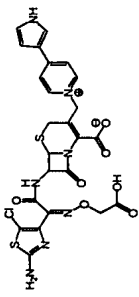
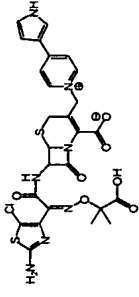
compound_no	Class of strain	4 - A	4 - B	4 - C
	cephem- sensitive: S cephem- resistant: R			
1 S. aureus SMITH	G(+)	2	2	2
2 S. aureus SR3637 (H-MRSA)	G(+)	16	32	16
3 S. aureus SR20067 (H-MRSA)	G(+)	64	128	64
4 S. pneumoniae SR16675 (PRSP)	G(+)	1	1	1
5 E. coli NIHJ JC-2	G(-)	0.125	0.063	1
6 E. coli SR21003 (Toho2)	G(-)	0.5	0.5	2
7 E. cloacae ATCC 13047	G(-)	1	1	2
8 E. cloacae SR4321 (Bla++)	G(-)	16	32	16
9 P. aeruginosa SR24	G(-)	0.5	1	1
10 P. aeruginosa SR24-12 (bla+)	G(-)	8	16	16
11 P. aeruginosa SR5393	G(-)	4	4	8
12 P. aeruginosa SR6554 (IPM-R)	G(-)	16	16	32
13 H. influenzae ATCC49766	G(-)	0.032	0.032	0.031
14 H. influenzae SR11435 (BLNAR)	G(-)	0.063	0.125	0.063
15 B. catarrhalis ATCC43617 (Bla +)	G(-)	0.016	0.032	0.063

Table 6. Series 6 Data

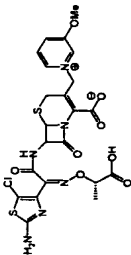
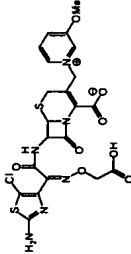
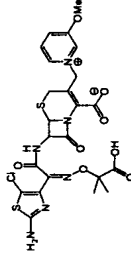
compound_no	Class of strain	6 - A	6 - B	6 - C
	cephem- sensitive: S cephem- resistant: R			
1 S. aureus SMITH	G(+)	S	8	8
2 S. aureus SR3637 (H-MRSA)	G(+)	R	64	32
3 S. aureus SR20067 (H-MRSA)	G(+)	R	128	128
4 S. pneumoniae SR16675 (PRSP)	G(+)	R	2	4
5 E. coli NIHJ JC-2	G(-)	S	0.25	2
6 E. coli SR21003 (Toho2)	G(-)	R	2	4
7 E. cloacae ATCC 13047	G(-)	S	2	4
8 E. cloacae SR4321 (Bla++)	G(-)	R	64	32
9 P. aeruginosa SR24	G(-)	S	2	2
10 P. aeruginosa SR24-12 (bla+)	G(-)	R	16	32
11 P. aeruginosa SR5393	G(-)	S	8	16
12 P. aeruginosa SR6554 (IPM-R)	G(-)	R	32	32
13 H. influenzae ATCC49766	G(-)	S	0.063	0.063
14 H. influenzae SR11435 (BLNAR)	G(-)	R	0.125	0.125
15 B. catarrhalis ATCC43617 (Bla +)	G(-)	S	0.032	0.031

Table 7. Series 7 Data

compound_no	Class of strain	7 - A	7 - B	7 - C
1	<i>S. aureus</i> SMITH			
2	<i>S. aureus</i> SR3637 (H-MRSA)	4	4	8
3	<i>S. aureus</i> SR20067 (H-MRSA)	64	128	32
4	<i>S. pneumoniae</i> SR16675 (PRSP)	>128	>128	>128
5	<i>E. coli</i> NIHJ JC-2	8	8	8
6	<i>E. coli</i> SR21003 (Toho2)	0.25	0.25	1
7	<i>E. cloacae</i> ATCC 13047	1	1	2
8	<i>E. cloacae</i> SR4321 (Bla++)	0.5	0.5	2
9	<i>P. aeruginosa</i> SR24	4	32	8
10	<i>P. aeruginosa</i> SR24-12 (bla+)	0.5	0.5	1
11	<i>P. aeruginosa</i> SR5393	4	8	8
12	<i>P. aeruginosa</i> SR6554 (IPM-R)	2	4	4
13	<i>H. influenzae</i> ATCC49766	8	32	16
14	<i>H. influenzae</i> SR11435 (BLNAR)	0.063	0.125	0.063
15	<i>B. catarrhalis</i> ATCC43617 (Bla +)	0.125	0.5	0.125
		0.016	0.031	0.016

Table 8. Series 8 Data

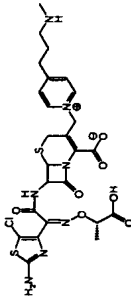
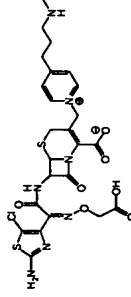
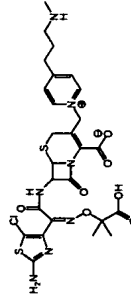
compound_no	Class of strain	8 - A	8 - B	8 - C
	cephem- sensitive: S cephem- resistant: R			
1 S. aureus SMITH	G(+)	8	8	8
2 S. aureus SR3637 (H-MRSA)	G(+)	64	64	64
3 S. aureus SR20067 (H-MRSA)	G(+)	128	128	128
4 S. pneumoniae SR16675 (PRSP)	G(+)	4	4	4
5 E. coli NIHJ JC-2	G(-)	1	1	4
6 E. coli SR21003 (Toho2)	G(-)	4	4	8
7 E. cloacae ATCC 13047	G(-)	1	2	8
8 E. cloacae SR4321 (Bla++)	G(-)	8	64	32
9 P. aeruginosa SR24	G(-)	1	1	2
10 P. aeruginosa SR24-12 (bla+)	G(-)	8	32	16
11 P. aeruginosa SR5393	G(-)	4	4	8
12 P. aeruginosa SR6554 (IPM-R)	G(-)	16	32	32
13 H. influenzae ATCC49766	G(-)	0.125	0.25	0.125
14 H. influenzae SR11435 (BLNAR)	G(-)	0.25	1	0.25
15 B. catarrhalis ATCC43617 (Bla +)	G(-)	0.032	0.031	0.031

Table 9. Series 9 Data

compound_no	Class of strain	9 - A	9 - B	9 - C
	cephem- sensitive: S			
	cephem- resistant: R			
1 S. aureus SMITH	G(+)	4	4	4
2 S. aureus SR3637(H-MRSA)	G(+)	32	64	32
3 S. aureus SR20067(H-MRSA)	G(+)	128	>128	128
4 S. pneumoniae SR16675 (PRSP)	G(+)	4	8	4
5 E. coli NIHJ JC-2	G(-)	0.25	0.125	1
6 E. coli SR21003 (Toho2)	G(-)	1	1	4
7 E. cloacae ATCC 13047	G(-)	1	2	4
8 E. cloacae SR4321 (Bla++)	G(-)	16	64	16
9 P. aeruginosa SR24	G(-)	1	1	1
10 P. aeruginosa SR24-12 (bla+)	G(-)	8	32	16
11 P. aeruginosa SR5393	G(-)	-	8	8
12 P. aeruginosa SR6554 (IPM-R)	G(-)	16	64	32
13 H. influenzae ATCC49766	G(-)	0.032	0.063	0.031
14 H. influenzae SR11435 (BLNAR)	G(-)	0.125	0.25	0.125
15 B. catarrhalis ATCC43617 (Bla +)	G(-)	0.032	0.031	0.031